(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 25 March 2004 (25.03.2004)

(10) International Publication Number WO 2004/024896 A3

(51) International Patent Classification7: C07D 209/14

(21) International Application Number:

PCT/US2003/030959

(22) International Filing Date:

12 September 2003 (12.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/410,777

12 September 2002 (12.09.2002)

- (71) Applicant (for all designated States except US): AVANIR PHARMACEUTICALS [US/US]; 11388 Sorrento Valley Road, Suite 200, San Diego, CA 92121 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SIRCAR, Jagadish, C. [US/US]; 4832 Riding Ridge Road, San Diego, CA 92130 (US). RAMNAUTH, Jailall [CA/CA]; 101-200 Lotherton Pathway, Toronto, Ontario M6B 2G9 (CA). RICHARDS, Mark, L. [US/US]; 11042 W. Ocean Air Drive, Apt. 345, San Diego, CA 92130 (US).
- (74) Agent: ALTMAN, Daniel, E.; KNOBBE, MARTENS, OLSON & BEAR, LLP, 2040 Main Street, 14th Floor, Irvine, CA 92614 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, II), IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, I.V, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, TE, TT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 24 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PHENYL-INDOLE COMPOUNDS

(57) Abstract: The present invention is directed to small molecule inhibitors of the IgE response to allergens, which are useful in the treatment of allergy and/or asthma or any diseases where IgE is pathogenic. This invention also relates to phenyl-indole molecules that are cellular proliferation inhibitors and thus are useful as anticancer agents. This invention further relates to small molecules which suppress cytokines and leukocytes.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30959

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07D 209/14 US CL : 548/506 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed U.S.: 548/506	l by classification symbols)	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where a	ppropriate, of the relevant passages Relevant to claim No.	
A US 6,486,153 B1 (CASTRO PINEIRO et al) 26 No. 12, lines 16-62.		
Further documents are listed in the continuation of Box C.	See patent family annex.	
 Special categories of clied documents; "A" document defining the general state of the art which is not considered to be of particular relevance 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be	
"E" earlier application or patent published on or after the international filing date	considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed		
Date of the actual completion of the international search Date of mailing of the international search report		
02 March 2004 (02.03.2004) 26 APR 2004		
Name and mailing address of the ISA/US Authorized officer		
Mail Stop PCT, Ath: ISA/US Commissioner for Patents	Sonya Wright Willia Milys M	
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (703) 308-1235	
Facsimile No. (703)305-3230		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30959

Box	Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)		
This	This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2.	\boxtimes	Claim Nos.: 1-54 and 56-62 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet	
3.	6.4(a).	Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule	
Box	II Ob	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)	
This	Internati	ional Searching Authority found multiple inventions in this international application, as follows:	
1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.	
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Rem	ark on 1	Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

	PCT/US03/30959
INTERNATIONAL SEARCH REPORT	
Continuation of Item 4 of the first sheet: The title is too many words.	
The new title is "Phenyl-Indole Compounds".	
Continuation of Box I Reason 2: In these claims, the variables (e.g. R, R1, R2, L, M, etc) and their voluminous and combinations make it difficult to determine the full scope and complete meaniclaimed subject matter cannot be regarded as being a clear and concise description listed claims do not comply with the requirements of PCT article 6. Thus it is imposame. A search will be made on the invention of claim 55, limited to compounds the search will be made on the invention of claim 55.	ng of the claimed subject matter. As presented, the
	,
	·
·	
•	
	<u>-</u>
•	
•	

AND/OR LEGALLY PRIVILEGED. SUCH INFORMATION IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHOM THIS TRANSMISSION IS ADDRESSED. IF YOU ARE NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISCLOSURE, COPYING, DISTRIBUTION OR THE TAKING OF ANY ACTION IN RELIANCE ON THE CONTENTS OF THIS TRANSMISTION AND ANY ATTACHED FILES SHOULD BE DELETED FROM YOUR DISK DIRECTORIES IMMEDIATELY, AND THAT ANY PRINTED COPIES OF THIS TRANSMISSION OR ATTACHED FILES SHOULD BE RETURNED TO THIS FIRM. IF YOU HAVE RECEIVED THIS TRANSMISSION IN ERROR, PLEASE NOTIFY US BY TELEPHONE OR E-MAIL IMMEDIATELY, AND WE WILL ARRANGE FOR THE RETURN TO MORGAN & FINNEGAN OF ANY PRINTED COPIES AT NO COST TO YOU.

----Original Message----

From: Roger Smith [mailto:rssconsulting@hotmail.com]

Sent: Thursday, August 03, 2006 11:22 AM

To: Feiler, William S.; Alan McCollom **Subject:** Conference call in number

Does a call in number exist for the call at 2pm?

Roger

File History	File History	File History
U.S. Patent No. 6,945,931 (1 of 3)	U.S. Patent No. 6,945,931 (2 of 3)	U.S. Patent No. 6,945,931 (3 of 3)
JFJ	JFJ	JFJ

	Tyco v. Applied	
	File History '854, '702 & '377 Patent	
. - 34	JFJ	

File History	File History	File History
U.S. Patent No. 6,945,931 (1 of 3)	U.S. Patent No. 6,945,931 (2 of 3)	U.S. Patent No. 6,945,931 (3 of 3)
JFJ	JFJ	JFJ

Tyco v. Applied	
File History '854, '702 & '377 Patent	
 JFJ	